

Wireshark Question

1. Start up your web browser and Wireshark packet sniffer. Capture packets in Wireshark while you visit <http://cse.nitk.ac.in/>. Stop Capturing the packets, Inspect the HTTP request and response. Analyze all the headers in the packets and also understand the different values used for the headers.
2. Explore:
 - Ping
 - Nslookup
 - Dig
 - Traceroute

Socket Programming

1. Build a client-server system to exchange messages between them.
 - Client connects to Server & sends "Hi".
 - Server reads the message and replies "Connected to client ip (address)"
 - Client-server exchanges messages
 - Termination : Client sends : "Bye" Server reads it & replies "Good bye"Client terminates the connection
2. Write a code for the Socket program where
 - The client requests for date and time with the Server.
 - The server sends the response to client
 - The client prints the date and time.

Output format

Client: TIME FROM SERVER Mon Sep 11 14:34:09 2023	Server: Client has requested for time at Mon Sep 11 14:34:09 2023
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Reference:

1. [Ping](#)
2. [Nslookup](#)
3. [Dig](#)
4. [Traceroute](#)
5. [HTTP Headers](#)